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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/849,272	05/07/2001	Yasuhiro Yoshida	1035-321	8246

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NIXON & VANDERHYE P.C.
1100 North Glebe Rd., 8th Floor
Arlington, VA 22201-4714

EXAMINER

SAJOUS, WESNER

ART UNIT	PAPER NUMBER
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2676

DATE MAILED: 06/18/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

B

Office Action Summary

Application No.

09/849,272

Applicant(s)

YOSHIDA ET AL.

Examiner

Wesner Sajous

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,17-19 and 21-24 is/are rejected.
- 7) ☒ Claim(s) 3,5-16,20,25 and 26 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 4, 17-19, and 21-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Akira (JP05007219).

Considering claim 1, Akira discloses an image display device (fig. 1) comprises an image display section (e.g., *screen display section, see line 4 of abstract*) for displaying an image in accordance with an input of a chrominance signal (*which is inherent in Akira. The Applicant should note that the input chrominance signal corresponds with the extracted Red or green or blue signal from the video signal that will be sensed by the sensors 8, 9, and 10, for RGB colors has chromaticities; i.e., chrominance signals. In addition, the outcome of detected RGB signals, as depicted in fig. 1, is to provide a chrominance video signal as input to the color recovery circuit {6} for further color processing or conversion. See "constitution", lines 1-7 and page 2 of the attached English abstract.*) In addition, Akira discloses a chrominance signal converter (as characterized by the functions of devices 1-7) for converting the chrominance signal to be inputted into the image display section, in accordance with

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light characteristics of external light that strikes onto the image display section (see abstract).

Re claim 2, Akira discloses a sensor (*e.g., item 8 or 9 or 10*) for sensing the light characteristics of the external light (see abstract), wherein the chrominance signal converter (1-7) converts the chrominance signal (*R, G, or B or the video chrominance signal, see abstract page 2*) into a chrominance signal of a color (*e.g., R-Y or B-Y or G-Y, see fig. 1*) suitable for an output of the sensor.

As per claim 4, Akira discloses the chrominance signal converter (1-7) includes a color reproduction section (7) for reproducing a color to display as an image agreeable with chromatic adaptation characteristics of human (*e.g., color change in a visual sense of a displayed color, see abstract*) by using three primary colors (*e.g., RGB colors*) having chromaticities suitable for the output of the sensor (*e.g., 8 or 9 or 10, which can be provided together as one sensor to reduce the circuit size*), the chrominance signal converter (1-7) converting the chrominance signal into a chrominance signal of a color (*e.g., R-Y or B-Y or G-Y, see fig. 1*) suitable for an output of the sensor.

The invention of claim 17 is an apparatus performing the same function as the image display device of claim 1; it is, therefore, subject to rejection under the same rationale set forth for claim 1.

Claim 18 is a method performing the apparatus of claim 17; it is, therefore, similarly rejected.

Re claim 19, Akira discloses the chrominance signal converter (1-7) converts the chrominance signal (*R, G, or B or the video chrominance signal, see abstract page 2*)

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into a chrominance signal of a color (e.g., *R-Y* or *B-Y* or *G-Y*, see *fig. 1*) suitable for the light characteristics of the external light that are detected by a sensor (e.g., item 8 or 9 or 10).

As per claim 21, Akira inherently discloses the conversion of the chrominance signal is carried out based on a color to display, which has been set (e.g., *via control section 1*, see *lines 1-3 of "constitution"*) according to the light characteristics of the external light and in consideration of color adaptation characteristics of human. See abstract.

As per claim 22, the embodiment of Akira inherently discloses the conversion of the chrominance signal is carried out based on a color reproduced (e.g., *via item 7*) by using three primary colors (e.g., *RGB colors*) having chromaticities suitable for the light characteristics of the external light.

Re per claim 23, Akira inherently discloses the conversion of the chrominance signal is carried out based on a reproduced color (e.g., *via item 7*) that is a color, according to the light characteristics of the external light, set (e.g., *via control section 1*, see *lines 1-3 of "constitution"*) as an image agreeable with chromatic adaptation characteristics of human (e.g., *color change in a visual sense of a displayed color*, see *abstract*) and reproduced by using three primary colors (e.g., *RGB colors*) having chromaticities suitable for the light characteristics of the external light.

As per claim 24, the embodiment of Akira inherently discloses the conversion of the chrominance signal is carried out based on a color to display, which is set according to the light characteristics of the external light (as characterized by the depiction at lines

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1-3 in Akira) and in consideration of color adaptation characteristics of human (e.g., as *color change in a visual sense of the displayed color, as depicted in Akira. See abstract).*

Allowable Subject Matter

3. Claims 3, 5-16, 20, and 25-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, because the prior art of record fail to teach or suggest an image display device that comprises a chrominance signal converter that includes a target display color setting section for setting a color to display as an image agreeable with chromatic adaptation characteristics of human, according to the output of the sensor, and convert the chrominance signal into a chrominance signal of a target display color that has been set by the target display color setting section (as recited in claim 3), and a color reproduction section that reproduces the target display color that has been set by the target display color setting section (as recited in claim 5); and a color correction coefficient generator for generating color correction coefficient, in accordance with the output of the sensor, and a color correction section for correcting the chrominance signal by using the color correction coefficient generator (as recited in claim 6), wherein the sensor has a function to resolve wavelength characteristics into at least two different types of wavelength regions, and measures wavelength characteristics of external light, based on output values in the respective wavelength regions (as recited in claim 8). The image display device further

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includes a memory for storing in advance characteristics of a plurality of types of the external light, wherein the chrominance signal converter converts the chrominance signal into a signal of a color suitable for the light characteristics of the external light that are selected and read out from the memory (as recited in claims 9 and 20).

Conclusion

4. The prior art of record considered pertinent to the Applicant's invention are as recited in the PTO-892 form.

Any response to this action should be mailed to:

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Or faxed to:

(703) 308-9051, (for formal communications; please mark "EXPEDITED
PROCEDURE")

Or:

(703) 872-9314 (for technology center 2600 only)

Hand-held delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, 6th floor (receptionist).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wesner Sajous whose telephone number is (703) 308-5857. The examiner can be reached on Mondays thru Thursdays and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella, can be reached at (703) 308-6829. The fax phone number for this group is (703) 308-6606.

Wesner Sajous - WOS

6/15/2003

